adaptec®

ADAPTEC®

Fast Ethernet Adapters

10/100 Mbps AutoSensing models and dedicated 100 Mbps models

PRODUCT HIGHLIGHTS

- NWay compatible AutoSensing of maximum line speed
- Universal cable connectivity with RJ-45 and BNC connectors
- Self-configuring design for easy setup
- Drivers for all popular network operating systems
- Comprehensive diagnostics utility
- Duralink™ Failover offers FDDI-like port resiliency for optimum availability

Duralink

LAN Magazine Products of the Year

Overview

Adaptec offers Fast Ethernet products to meet every adapter environment, including 10Base-2, 10Base-T, 100Base-TX, 100Base-T4, and 100Base-FX (fiber optic).

Adaptec's Cogent Fast Ethernet adapters, designed for PCI, EISA and ISA servers and workstations, deliver the fastest, easiest connection to Fast Ethernet networks. These flexible, high-speed adapters offer great price-performance benefits for networks migrating to or already running Fast Ethernet.

Key Features and Benefits

High Performance
The Fast Ethernet adapters provide your graphics, multimedia, and Windows® applications with the high throughput and low CPU utilization needed to power large amounts of data across the campus, or around the world.

Both TX and FX adapters for the PCI bus include Full Duplex Fast Ethernet (FDFE) capability to double the cumulative system throughput rate. FDFE capability is easily enabled via software configuration.

Universal Connectivity
The TX and T4 Combo adapters achieve universal cable connectivity by providing both a BNC coax and RJ-45 connector. Connect to your older coax network now and still be prepared to upgrade to Fast Ethernet in the future.

Flexible Configuration
The AutoSense feature in all 10/100 Mbps models allows the adapters to automatically detect the network's maximum line speed. No adapter configuration is necessary. For maximum flexibility, the AutoSense feature works with all 10 and 100 Mbps devices, including those without NWay line speed negotiation.

Whichever model you choose, installation is a snap. All PCI models provide automatic configuration through the PCI BIOS. All EISA models come with an EISA configuration file and support all EISA Configuration Utilities. And all ISA models provide Plug-and-Play support.

Resilient, Redundant Links
Duralink Failover drivers included with each 10/100 TX PCI adapter, ensure the integrity of mission-critical Ethernet server links. Duralink Failover establishes an FDDI-like port resiliency with both active and hot-standby links. In the event that the active link fails, the standby link is automatically activated to preserve the network link and maintain the server's availability. Duralink Manager, also included, is a data compilation tool that simplifies adapter monitoring and configuration.

Additional Features

PCI Models
- DECchip LAN coprocessor chip
- 132 MByte/sec burst data rate across the PCI bus for maximum performance
- Self-configuring design for Plug-and-Go operation
- PROM socket for optional universal boot PROM (RPL)
- Integrated 2 KBytes transmit and 4 KBytes receive FIFOs (First In, First Out memory)

EISA Models
- SMC FEAST Fast Ethernet controller
- Integrated 128 KBytes packet buffer for increased performance
- DMA burst mode transfers
- Fully software configurable with EISA configuration file

ISA Models
- SMC FEAST Fast Ethernet controller
- Integrated 128 KBytes packet buffer for increased performance
- Plug-and-Play support
- PROM socket for optional universal boot PROM (RPL)
- I/O mapped architecture to prevent RAM consumption

Adaptec Model Number Chart

Cogent 10/100 Fast Ethernet

New Model #	Bus	Speed	Interface
ANA™-6911/TX Combo	PCI	10/100 Mbps	RJ-45, BNC
ANA-6911/TX	PCI	10/100 Mbps	RJ-45
ANA-6911/T4	PCI	10/100 Mbps	RJ-45
ANA-6910/FXST	PCI	100 Mbps	ST
ANA-6910/FXSC	PCI	100 Mbps	SC
ANA-6711/TX Combo	EISA	10/100 Mbps	RJ-45, BNC
ANA-6711/TX	EISA	10/100 Mbps	RJ-45
ANA-6711/T4	EISA	10/100 Mbps	RJ-45
ANA-6511/TX Combo	ISA	10/100 Mbps	RJ-45, BNC
ANA-6511/TX	ISA	10/100 Mbps	RJ-45
ANA-6511/T4	ISA	10/100 Mbps	RJ-45

TECHNICAL SPECIFICATIONS

Systems Supported: PCI Local Bus computers based on Intel, DEC Alpha, MIPS and PowerPC processors. ISA and EISA bus computers based on Intel processors.

Bus Interface: ISA, 16-bit I/O mapped EISA, DMA burst mode transfer
PCI, 32-bit bus master

Ethernet Controller: DECchip LAN coprocessor chip (PCI)
SMC FEAST Fast Ethernet Controller (ISA and EISA)

FIFO Buffer Memory: PCI, 2 KBytes transmit, 4 KBytes receive
EISA, 128 KBytes (transmit and receive)
ISA, 128 KBytes (transmit and receive)

Hardware Interrupts: PCI interrupt A supports shared interrupts (PCI)
5, 9, 11 & 15 supports shared interrupts (EISA)
Plug-and-Play, or interrupts 5, 9, 11 & 15 (ISA)

Base IO or Memory Address: Assigned by BIOS (PCI)
Default 300h, 8 possible choices (EISA)
Assigned by Plug-and-Play or manually (ISA)

PCI Configuration Space: Supports DWORD, WORD, and BYTE access.

Reliability: Calculated MTBF>100,000 hours

Power Requirements: +5 volts @ 1.5 Amp. max.

Environmental Operating Range: Temperature: 0°C to 50°C

Relative Humidity: 5% to 85% non-condensing

Altitude: 3000m max.

Interface Connections: See model conversion chart.
All PCI models support Full Duplex at 10 Mbps. Additionally, PCI TX and FX models support Full Duplex at 100 Mbps.

Dimensions: 5.075" x 3.9" (conforms to PCI Short Card specifications)
7.6" x 4.2" (EISA)
7.3" x 4.2" (ISA)

Standards Compliance: IEEE 802.3 10Base-2
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-T4/TX/FX

Bus Type	FCC	CE
PCI	B	B
Others	A	A

Drivers Available:
3.5" diskette - Novell NetWare 3.x, 4.x, DOS ODI Client, Windows for Workgroups (NDIS 3.0), Windows® 95, Windows NT™ for Intel and DEC Alpha platforms, DOS NDIS (NDIS 2.0), OS/2 Warp (NDIS 2.0), Banyan VINES DOS client, Sun Solaris, NEXTSTEP, SCO UnixWare, SCO Open Desktop/Open Server (not all drivers are available for every adapter)

Duralink:
3.5" diskette – Duralink Failover and Duralink Manager for ANA-6911/TX and TX Combo at no charge.

Diagnostic LEDs: Link Integrity
Network Activity
100 Mbps indicator

Warranty:
Adaptec's Cogent adapters are protected by a limited lifetime warranty.

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(up to 28,800 baud, using 8 bits, 1 stop bit, no parity)

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